# **PRODUCT INFORMATION PACKET**

Model No: KS31P522E60U33XSX Catalog No: AL08D5230MFAFTOAOO 31.5 Kw, Crane Duty Slipring Motors , 3 phase, 6 Pole, 415 V, S3 Duty, KS225MB Frame, 60 CDF, 6 Start/Hr., TEFC



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# marathon®

### Nameplate Specifications

Output HP	42.20 Hp	Output KW	31.5 kW
Frequency	50 Hz	Voltage	415 V
Current	65.0 A	Speed	978 rpm
Phase	3	Duty	S3
Frame	KS225MB	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	45 ℃
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	CSA	No
CE	No	IP Code	55
CDF	60 %	Start/Hr	6
RA	63 A	RV	305 V
Insulation class Stator/Rotor	F/F	Temp. Rise Stator/Rotor	75/75 K
Stator Connection	Delta	Rotor Connection	Star
Efficiency Class	Standard		

## **Technical Specifications**

Electrical Type	Slipring	Starting Method	Rotor resistance starter
Rotation	<b>Bi-Directional</b>	Mounting	IMB3
Motor Orientation	Horizontal	Drive End Bearing	Antifriction
Opp Drive End Bearing	Antifriction	Frame Material	Cast Iron/Fabricated
Shaft Type	Single Cylinder	Overall Length	1077.00 mm
Frame Length	1077.00 mm	Shaft Diameter	60.000 mm
Shaft Extension	140 mm	Assembly/Box Mounting	Тор
Rotor GD2	4.3 kg⋅m²	Pull Out Torque	3.2
Outline Drawing	CM19820.00	Connection Drawing	DP2376

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#### DIMENSIONAL DETAILS:-

	FRAME	NO OF	Н		FIXING DIMENSION				НА	AC-DIA	HD	AA	AB			BB
		POLE	NOM	TOL	Α	В	С	К			ΗU	AA	AB	BA	BA1	DD
ł	KS225S	4 -12	225	-0.5	356	286	149	19	27	500	635	108	457	108	108	345
ł	KS225M	4 -12	225	-0.5	356	311	149	19	27	500	635	108	457	108	108	370
ł	KS250S	4 -12	250	-0.5	406	311	168	24	30	500	660	108	483	115	115	382
ł	KS250M	4 -12	250	-0.5	406	349	168	24	30	500	660	108	483	115	115	420

	CYLINDRICAL SHAFT DIMENSIONS DETAILS (BOTH ENDS)												TAPER SHAFT DIMENSIONS DETAILS (BOTH)									
FRAME	L	LC	Е	[	C	GA		F	G	D	Ģ	Ε	L1	LC1	D1	D2	E1	E2	F1	H1	G1	Q
				NOM	TOL		NOM	TOL	NOM	TOL	NOM	TOL	1									
KS225S	1053	1194	140	60	+0.030 +0.011	64	18	-0.052	11	-0.011	7	+0.2	1053	1194	T 60	M42x3	140	105	16	10	31.4	5
KS225M	1077	1218	140	60	+0.030 +0.011	64	18	-0.052	11	-0.011	7	+0.2	1077	1218	T 60	M42x3	140	105	16	10	31.4	5
KS250S	1117	1256	140	65	+0.030 +0.011	69	18	-0.052	11	-0.011	7	+0.2	1117	1256	T 70	M48x3	140	105	18	11	36.4	5
KS250M	1155	1294	140	65	+0.030 +0.011	69	18	-0.052	11	-0.011	7	+0.2	1155	1294	T 70	M48x3	140	105	18	11	36.4	5

								narati al Beloit Co		Paha		lotors (India) Limited 3 Taratala Road. NDIA	
									IE DIN	IENSI	ON DRAWI	NG FOR KS225S &	λ.Μ
						1.0 ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE SPECIFIED. 2.0 FOR TOLERANCES OF DIMENSIONS(NOT MENTIONED) REFER TO IS:2102.	TITLE	E KS250S & M MOTOR (CYLINDRICAL & TAPER SHAFT					AFT)
						3.0 DIMENSIONS MARKED * ARE MAXIMUM VALUES.							-
							DRAWN	S.B		27.10.17	PROJECTION	DRAWING NO.	REV.
							CHECKED	KAUSIK			-⊕∈		<u> </u>
							APPRVD.	P.LAHIRI			SCALE IF ANY	CM19820	00
REVISION	DATE	DETAIL OF	REVISION	DONE BY	APPRVD				SIGN	DATE	N.T.S	010110020	00



Model No. KS31P522E60U33XSX	Part No. ALC	8D5230MFAFTOAOO
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Р	Р	n	ΡΟΤ	Т	U	f	Ι	RA	RV	CDF	Duty	No. of Starts/Hr.	Frame	
[kW]	[hp]	[RPM]	XFLT	[Nm]	(V)	[Hz]	[A]			%			Frame	
31.5	42.2	978	3.2	985	415	50	65	63	305	60	S3	6	KS225MB	

Motor type	Slipring	Degree of protection	IP-55	
Enclosure	TEFC	Motor weight - approx.	560	kg
Frame Material	-	Gross wight- approx.		kg
Mounting type	IMB3	Motor GD2	4.3	kgm <sup>2</sup>
Cooling method	IC411	Vibration level	As per IS:12075	mm/s
Voltage variation	+/-10%	Noise level ( 1meter distance from motor)	As per IS:12065	dB(A)
Frequency variation	+/-5%	Starting method	Rotor resistance starter	
Combined variation	10%	Coupling	Direct / Gearbox	
Insulation class	F/F	Direction of rotation	<b>Bi-directional</b>	
Ambient temperature	45	Paint shade	RAL5011	
Temperature rise (by resistance)	75/75	Type of Terminal Box	Standard	
Altitude above sea level	Upto 1000	Terminal box position	Тор	
Efficiency		Max. Cable size	Refer to TBA drg.	
Power Factor		Bearing type	Antifriction	
Stator Connection	Delta	DE Bearing	6314	
Rotor Connection	Star	NDE Bearing	6314	
		Type of Lubrication	Grease	

#### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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